Hosting a Static Website using S3, CloudFront, Route 53, and GoDaddy

# Step 1: Create S3 Bucket and Upload Content

* Go to AWS S3 Console
* Create a bucket (name doesn't need to match domain)
* Upload your website files (index.html, etc.)
* Keep bucket private (do not enable static website hosting)
* We'll use CloudFront for public access

# Step 2: Create Route 53 Hosted Zone

* Go to Route 53 Console
* Click 'Create hosted zone'
* Domain name: whoami.monster
* Type: Public hosted zone
* Click 'Create hosted zone'
* Copy the 4 nameservers listed

# Step 3: Update GoDaddy Nameservers

* Login to GoDaddy and go to domain management
* Find DNS settings for whoami.monster
* Change nameservers to Route 53's nameservers
* Enter all 4 nameservers from Route 53
* Save changes and wait for propagation (2-48 hours)

# Step 4: Request SSL Certificate

* Go to AWS Certificate Manager (ACM)
* Click 'Request a certificate'
* Choose 'Request a public certificate'
* Enter domain names: whoami.monster, www.whoami.monster (optional)
* Choose DNS validation and click 'Request'
* Click on the certificate and 'Create records in Route 53'
* Wait for status to change to 'Issued'

# Step 5: Create CloudFront Distribution

* Go to CloudFront Console and click 'Create distribution'
* Origin domain: your-bucket-name.s3.amazonaws.com
* Leave origin path blank
* Alternate domain names (CNAMEs): whoami.monster
* SSL Certificate: Choose your ACM certificate
* Default root object: index.html
* Click 'Create distribution'

# Step 6: Configure Origin Access Control

* In CloudFront, go to your distribution
* Edit Origin and create new Origin Access Control (OAC)
* Save changes
* Update S3 Bucket Policy with the following:

{  
 "Version": "2012-10-17",  
 "Statement": [  
 {  
 "Effect": "Allow",  
 "Principal": {  
 "Service": "cloudfront.amazonaws.com"  
 },  
 "Action": "s3:GetObject",  
 "Resource": "arn:aws:s3:::YOUR-BUCKET-NAME/\*",  
 "Condition": {  
 "StringEquals": {  
 "AWS:SourceArn": "arn:aws:cloudfront::YOUR-ACCOUNT-ID:distribution/YOUR-DISTRIBUTION-ID"  
 }  
 }  
 }  
 ]  
}

# Step 7: Create Route 53 DNS Record

* Go to Route 53 → Hosted zones → whoami.monster
* Click 'Create record'
* Record name: Leave blank (for root domain)
* Record type: A
* Alias: Yes
* Route traffic to: Alias to CloudFront distribution
* Choose your CloudFront distribution
* Click 'Create records'

# Step 8: Wait and Test

* Wait for CloudFront deployment: 15-20 minutes
* Wait for DNS propagation: 5 minutes to 48 hours
* Test your website: https://whoami.monster
* It should serve your S3 content through CloudFront

# Timeline

* SSL certificate validation: 5-30 minutes
* CloudFront deployment: 15-20 minutes
* DNS propagation: 5 minutes to 48 hours (usually within 2-4 hours)